Please note that this user manual may be subjected to change due to product upgrades without any prior notice.

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How to Read This Manual

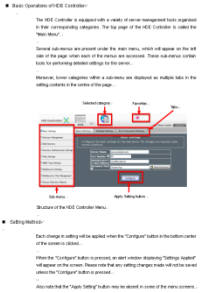
About this Manual

The " HDE Controller X Virtual Domain Operation Guide" provides users with instructions to installing OS and the HDE Controller (this Product) as well as steps for configuring the initial settings of the Product.

Annotations are provided for any matters requiring special attention and phrase supplements.

	Any matters which require special attention are marked with this "Alert" icon in bold frame.

	Contents which provide useful reference for using HDE Controller are marked with this "Hint" icon.



HDE Controller X

Chapter 1
Server Settings for Using Virtual Domains

1. How to Read the Virtual Domain Operation Guide

How to Read the Virtual Domain Operation Guide

This guide consists of three major chapters. The first chapter "Server Settings for Using Virtual Domains" introduces the machine/service configurations necessary for creating and running virtual domains.

The second chapter "Create Virtual Domain" explains how to create and manage virtual domains as well as service configurations and operations done by the administrator.

The third chapter "Virtual Domain User Features" shows the available features for virtual domain users.

Please refer to the package manuals of each individual package as well as the online manual for details on each configuration settings.

Although this manual only introduces the usage and configuration methods directed towards name-based virtual domains, users can perform the same configuration and operation on IP-based virtual domains in similar way. Please follow the Hint and Alert boxes in the guide for configuration differences between the two virtual domains.

2. Machine Setting Summary

This section provides instructions for configuring the client machine to suite the use of HDE Controller. HDE controller will access these machines setting information when configuring the settings for each service it provides.

Please take note of the following information before performing the configuration for virtual domains.

- Check Machine IP Address

  HDE Controller will use the IP address of eth0 as its own configuration information when two network cards are used together. Please make sure this setting is configured correctly.

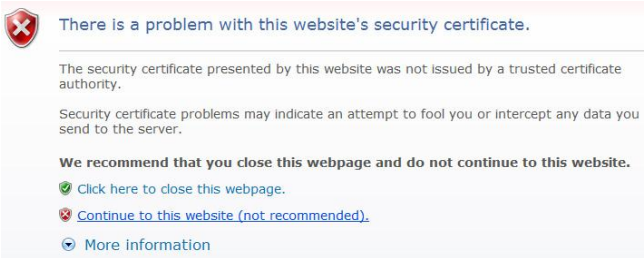
- Check Disk Partition

  If you wish to set disk quota settings on the virtual domain you wish to create, it may be necessary to configure your /home independently of other directories. Please note that HDE Controller will also require / and /usr directories for creating temporary files.

■ Access the Administrator Menu

To access the administrator menu from the client machine, enter the following URL into the address bar of the supported Web browser.

```
http://Host FQDN or IP address:16590/
```


There is a problem with this website's security certificate.
The security certificate presented by this website was not issued by a trusted certificate authority.
Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.
We recommend that you close this webpage and do not continue to this website.
Click here to close this webpage.
Continue to this website (not recommended).
More information

Click "Yes" on the Security Warning dialogue.

Enter the following information in the authentication dialogue:

User Name	root
Password	root password

3. Network Basic Settings

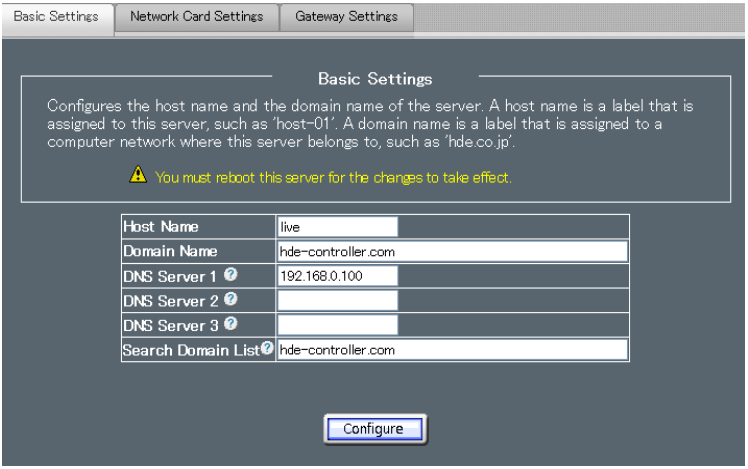
Since the basic network settings have already been configured upon OS installation, this section will use HDE Controller to confirm as well as edit these basic settings.

Please note that this guide focuses on providing instructions for creating virtual domains. Please refer to the "User Manual" for further details on advanced network settings such as routing and port forwarding.

■ General Settings

● Basic Settings

Configure the client machine host name, domain name, and name server settings.


Basic Settings
Network Card Settings
Gateway Settings
Basic Settings
Configures the host name and the domain name of the server. A host name is a label that is assigned to this server, such as 'host-01'. A domain name is a label that is assigned to a computer network where this server belongs to, such as 'hde.co.jp'.
You must reboot this server for the changes to take effect.
Host Name
live
Domain Name
hde-controller.com
DNS Server 1
192.168.0.100
DNS Server 2
DNS Server 3
Search Domain List
hde-controller.com
Configure

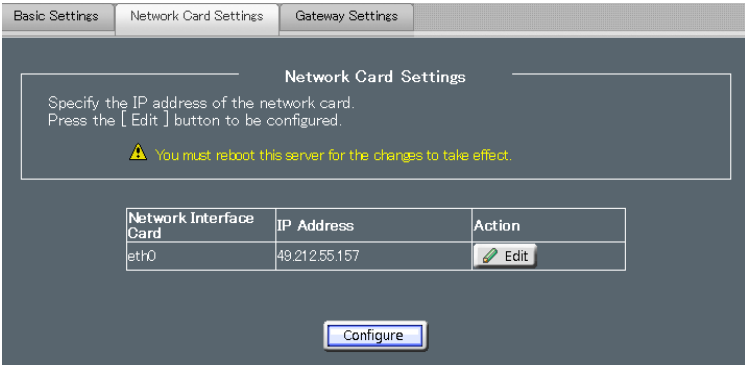
Please make sure to set your machine as DNS Server 1 if you wish to configure DNS server settings on this client machine.

Ex.) 127.0.0.1, etc.

- Network Card Settings

  Display a list of network cards installed on your client machine.

  Users can move to the configuration menu and enter the IP address and netmask of a particular network card by selecting the network card and clicking on the "Edit" button.



> Please do not change the IP addresses after the virtual domain is configured.

- Gateway Settings

  Edit the configuration settings for gateway IP addresses and hardware devices used as gateway on your machine.

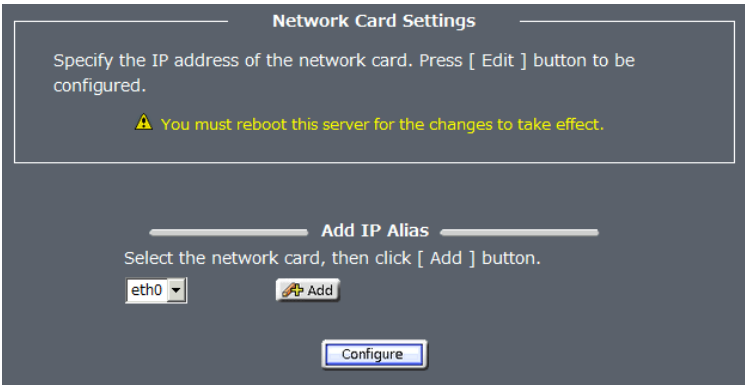
  IP forwarding and IP masquerade can be enabled when two network cards are installed.

■ IP Alias Settings

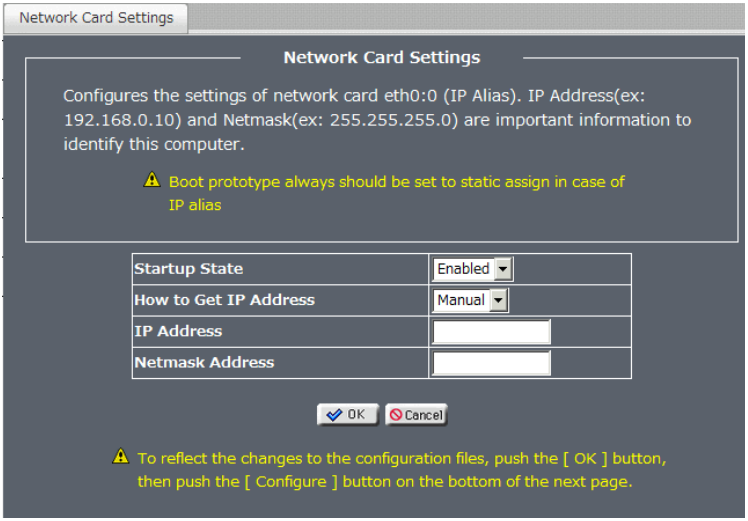
It is necessary to set IP address allocated to the server as an IP alias when configuring IP-based virtual domains.

Select the network card you wish to allocate IP to from the menu and click the "Add" button to continue.

> We recommend you to use global IP addresses for IP alias.


Network Card Settings
Specify the IP address of the network card. Press [Edit] button to be configured.
You must reboot this server for the changes to take effect.
Add IP Alias
Select the network card, then click [Add] button.
eth0
Add
Configure

The network card settings screen will be displayed. Please configure the settings as shown below.


Network Card Settings
Network Card Settings
Configures the settings of network card eth0:0 (IP Alias). IP Address(ex: 192.168.0.10) and Netmask(ex: 255.255.255.0) are important information to identify this computer.
Boot prototype always should be set to static assign in case of IP alias
Startup State
Enabled
How to Get IP Address
Manual
IP Address
Netmask Address
OK
Cancel
To reflect the changes to the configuration files, push the [OK] button, then push the [Configure] button on the bottom of the next page.

Boot up Settings	Enabled
Obtain IP Address	Manual
IP Address	IP address allocated to IP alias
Netmask	Netmask allocated to IP alias

Click the "OK" button to continue to return to the previous screen.

Click the "Configure" button to complete your settings.

Your configured network card will be displayed on the list after your settings have been completed.

Click the "Edit" button beside the network card to edit its settings.

4. Mail Server Settings

The initial mail server settings configured during HDE Controller installation is not sufficient to operate a mail server; hence, it is necessary to further configure the mail server settings after the installation is complete.

This section will provide instructions on configuring your mail server settings for operation.

■ Basic Settings

● Basic Settings

Display a list of domains allowed to receive mails.

To restrict the size of the mails received on this server, enter the threshold value (bytes) into the "Maximum Mail Size" box as provided.

Since the mail size is encoded, it appears to be approximately1.4 times greater than its actual size.

Click the "Configure" button to complete your settings.

● Detail Settings

Configure detailed settings such as SMTP and POP3 port number change for using HDE Anti-Virus for Gateway and other anti-virus software.

Change the mail server sending port number for each protocol (SMTP, SMTPS, Submission Protocol pending port numbers) if necessary.

Change the mail server receiving port number for each protocol (POP3, POP3S, IMAP, IMAPS protocol) pending port numbers) if necessary.

Click the "Configure" button to complete your settings.

Please use the following commands to confirm that the port numbers have been changed correctly. (Example shows the port number has been changed to 9025).

```
$ telnet localhost 9025
Trying 127.0.0.1...
Connected to localhost.localdomain.
Escape character is '^]'.
```

```
220 xxx.xxx.xxx ESMTP
quit
221 xxx.xxx.xxx
```

・"220 xxx.xxx.xxx ESMTP" indicates that the change has been made successfully.

・"telnet: Unable to connect to remote host: Connection refused " indicates that the change has fail. Please reconfigure your port number settings.

■ Access Control Settings

Since HDE Controller uses SMTP AUTH to regulate access control, please make sure that the mail client software used to send mails from unauthenticated mail server also supports SMTP AUTH.

■ Anti-Spam Settings

Use the public RBL server to deny incoming mails from malicious unauthenticated hosts.

Additionally, users may also deny incoming mails from servers which are not registered on the RBL by entering the "@DomainName".

5. Web Server Settings

The basic Web server settings have already been configured upon software installation and hence no further configurations are necessary.

Please try to use the virtual domain when publishing Web sites instead of real domains.

Please refer to the User Manual for further details.

To allow CGI/SSI for virtual domain users, these settings must first be configured in the real domain.

■ Allow CGI/SSI for Virtual Domain Users

Create a directory in the "Add Directory" menu with the following permissions:

	Directory Name
Allow specific domain's user contents directory (public_html)	/home/lcvirtualdomain/DomainName/users/*/public_html
Place cgi-bin under the user contents directory (public_html)	/home/lcvirtualdomain/DomainName/users/*/public_html/cgi-bin
Allow user content directories (public_html) of all domains	/home/lcvirtualdomain/*/users/*/public_html

■ Using suEXEC

Select "Enable" in the pull-down menu in the "Basic Settings" - "suEXEC Settings" screen to enable the use of suEXEC.

This setting will disable virtual domain users from using CGI/SSI.

- Using .htaccess(Distributed Configuration File Control/AllowOverride)

  Select the appropriate settings for AllowOverride in the "Directory Management" - "Add Directory" menu.

6. DNS Server Settings

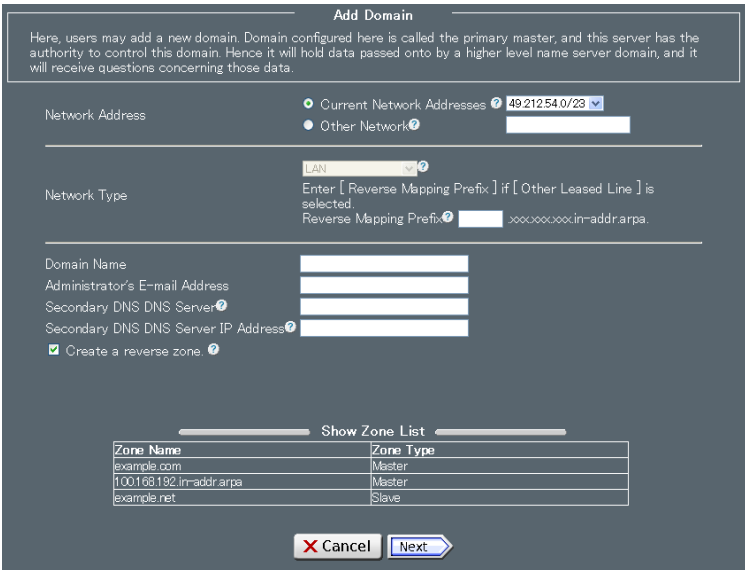
No further configuration is necessary if the host name allocated to your machine is being managed by another name server.

Please follow the instructions provided in this section for constructing a new domain.

Please obtain the name server configuration information (prefix information) from your provider prior to setting up a new domain.

■ Add Domain

● Add a New Domain


Add Domain
Here, users may add a new domain. Domain configured here is called the primary master, and this server has the authority to control this domain. Hence it will hold data passed onto by a higher level name server domain, and it will receive questions concerning those data.
Network Address
Current Network Addresses
49.212.54.0/23
Other Network
Network Type
LAN
Enter [Reverse Mapping Prefix] if [Other Leased Line] is selected.
Reverse Mapping Prefix
.xxx.xxx.xxx.in-addr.arpa.
Domain Name
Administrator's E-mail Address
Secondary DNS DNS Server
Secondary DNS DNS Server IP Address
Create a reverse zone.
Show Zone List
Zone Name
Zone Type
example.com
Master
100.168.192.in-addr.arpa
Master
example.net
Slave
Cancel
Next

- Network Address: select the network address of your current system for Network Address.
- Network Address Type: select the appropriate network address type from the pull down menu. Select "Other dedicated lines" and enter the prefix if you cannot find a suitable address type. ("OCN"(Flets) is selected in the example).

- Domain Name: enter the domain name for the real domain.
- Administrator's E-mail Address: enter the mail address of the domain administrator.
- Host Name and IP Address for Secondary DNS Server: enter the appropriate value into each text boxes.
- Check the "Automatically Create Reverse Look-Up Zone" if you wish to enable create reverse look-up zone automatically.

Click the "Proceed" button to continue.

● Add Host Information

First, enter the name server information.

- Host Type: select DNS server.
- Host Name: enter the host name used when registering this domain to the registered.
- Value: enter the IP address of your machine.

Perform the same configuration for any other host name you wish to add.

Click the "Configure" button to complete your settings.

Additional hosts can also be added in the “Record Management” menu.

Check to see whether your name server has been added correctly by running the following command in the console screen:

・ Host Name -> IP Address (forward look-up)

```
$ host example.com   <-Enter
example.com has address 192.168.189.104 <-Server Response
```

・ IP Address -> Host Name (reverse look-up)

```
$ host -t ptr 192.168.189.104  <- Enter
104.189.168.192.in-addr.arpa domain name pointer
192.168.189.104.xxx.xxx.xxx.xxx <- Server Response
```

You may not be able to perform the reverse look-up check if your provider does not provide the appropriate settings or if

your machine is unable to establish external connection.

7. FTP Server Settings

Configure overall FTP server settings for your client machine.

■ Basic Settings

● Anonymous FTP Settings

Allow unregistered users to log-in to the machine.

It is recommended to disable this setting as some malicious log-ins can be harmful to the system...

● Port Settings

Limit the ports used for data transfer when using Passive mode.

The port number configured in this menu will be used when limiting the port numbers to be made public in routers and firewalls.

HDE Controller X

Chapter 2
Create Virtual Domain

1. Summary

This chapter will provide instructions and examples on how to construct a virtual domain and its operation methods.

Please follow the same configuration steps for IP-based virtual domains as well.

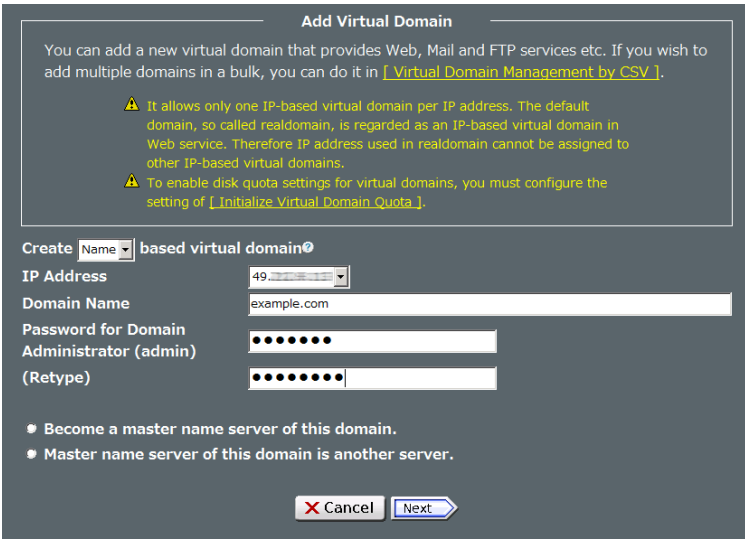
Please follow the Hint and Alert boxes in the guide for configuration differences between the two virtual domains.

2. Add Virtual Domain

This section will provide instructions for constructing new virtual domains. It is necessary to configure your machine to suit for the creation and operation of virtual domains.

Click the "Virtual Domain Management" - "Add Virtual Domain" menu to access the configuration screen.

■ Virtual Domain Basic Settings


Add Virtual Domain
You can add a new virtual domain that provides Web, Mail and FTP services etc. If you wish to add multiple domains in a bulk, you can do it in [Virtual Domain Management by CSV].
It allows only one IP-based virtual domain per IP address. The default domain, so called realdomain, is regarded as an IP-based virtual domain in Web service. Therefore IP address used in realdomain cannot be assigned to other IP-based virtual domains.
To enable disk quota settings for virtual domains, you must configure the setting of [Initialize Virtual Domain Quota].
Create Name based virtual domain
IP Address
49.
Domain Name
example.com
Password for Domain Administrator (admin)
(Retype)
Become a master name server of this domain.
Master name server of this domain is another server.
Cancel
Next

Specify the virtual domain type as either Name-Based or IP-Based.

This chapter will create a name-based "example.jp" domain as an example.

For systems equipped with multiple network interfaces, select the IP address of the interface which provides the virtual domain service in "Select IP Address".

Enter the virtual domain name in "Enter Domain Name".

Enter and confirm the administrator's password in "Domain Administrator Password". Please do not lose the domain administrator's password as the password configured in this menu will be used to log-in to the administrator screen.

The user name used for log-in will be in the format of “admin@DomainName”.

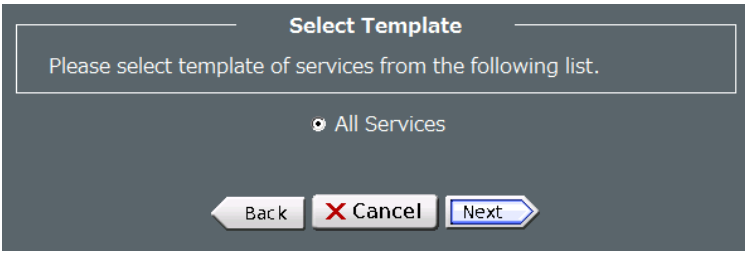
Select "Set as the master name server of this domain" if you wish to set your server as the master name server of this domain (example.jp). This will automatically add the main entry of the virtual domain to the name server.

Select "Entrust other server to be the master server of this domain" if you wish to set other server as the master server of the virtual domain "example.jp". Please note that these options will not be displayed if the bind package is not installed on the server machine.

The example used in this chapter will set the user's own server as the master name server for the virtual domain example.jp.

Click the "Proceed" button to continue to the next screen.

■ Select Template



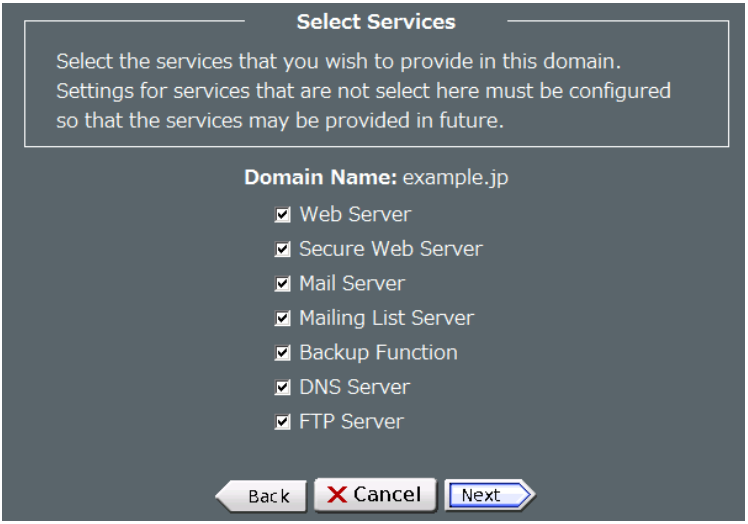
HDE Controller ISP allows users to create new virtual domain service status template to be selected when adding a new virtual domain. The values entered in the template will be used as initial values of each corresponding items when adding a new domain; hence, creating a template for specific services (service menu) will make the adding process more efficient.

You will only see the "All Services" template if no other templates has been created.

The example used in this chapter will assume that the user has selected the "All Services" template. Please refer to the User Manual for instructions on creating new user templates for virtual domains.

Click the "Proceed" button to continue.

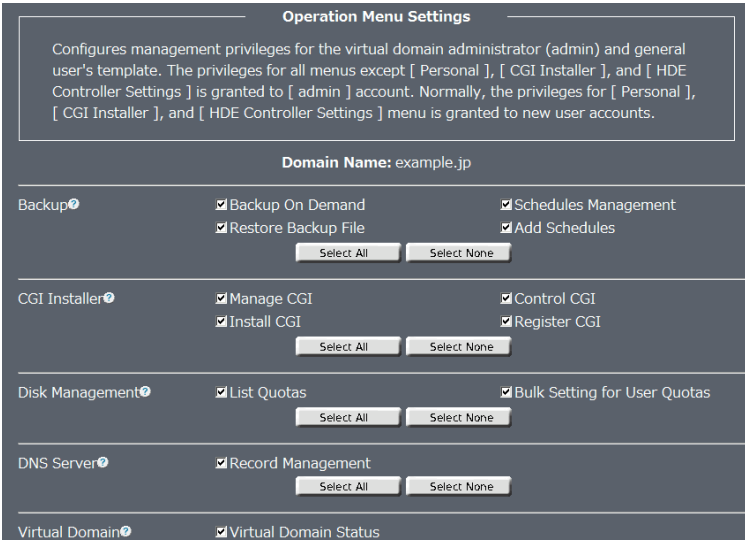
■ Service Settings



Select the services to be provided by the virtual domain. Removing unnecessary services will reduce the system load.

The example used in this chapter will assume that all services are selected.

Click the "Proceed" button to continue,


Operation Menu Settings
Configures management privileges for the virtual domain administrator (admin) and general user's template. The privileges for all menus except [Personal], [CGI Installer], and [HDE Controller Settings] is granted to [admin] account. Normally, the privileges for [Personal], [CGI Installer], and [HDE Controller Settings] menu is granted to new user accounts.
Domain Name: example.jp
Backup
Backup On Demand
Schedules Management
Restore Backup File
Add Schedules
Select All
Select None
CGI Installer
Manage CGI
Control CGI
Install CGI
Register CGI
Select All
Select None
Disk Management
List Quotas
Bulk Setting for User Quotas
Select All
Select None
DNS Server
Record Management
Select All
Select None
Virtual Domain
Virtual Domain Status

The Operation Menu allows users to select the menu items to be displayed on the virtual domain administrator screen.

The selected items will be displayed when the virtual domain administrator logs into the HDE Controller administrator screen.

Each menu is sub-divided into sub-menus and users may configure the settings on sub-menu basis. If none of the sub-menus are selected for a menu item, such item will not be displayed on the administrator screen.

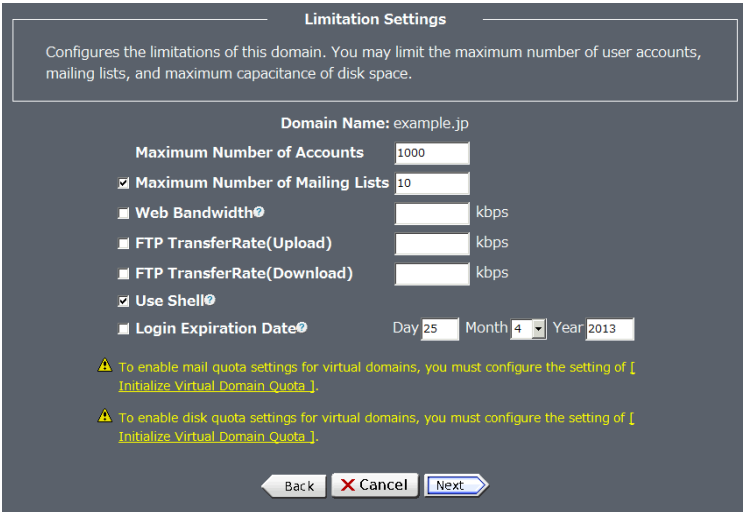
One example of efficient display is to select "Web Server" on the previous screen and then deselect the "Web Server" item in the Operation Menu to allow the user to create a virtual domain which Web service is provided but it disables virtual domain administrators from accessing the public Web directory and its settings.

These settings are left has their default values under normal circumstances.

The example used in this chapter will assume that the user did not change any of the settings in the Operation Menu.

Click the "Proceed" button to continue.

■ Restriction Settings


Limitation Settings
Configures the limitations of this domain. You may limit the maximum number of user accounts, mailing lists, and maximum capacitance of disk space.
Domain Name: example.jp
Maximum Number of Accounts
1000
Maximum Number of Mailing Lists
10
Web Bandwidth
kbps
FTP TransferRate(Upload)
kbps
FTP TransferRate(Download)
kbps
Use Shell
Login Expiration Date
Day 25 Month 4 Year 2013
To enable mail quota settings for virtual domains, you must configure the setting of [Initialize Virtual Domain Quota].
To enable disk quota settings for virtual domains, you must configure the setting of [Initialize Virtual Domain Quota].
Back
Cancel
Next

Specify the restriction settings for virtual domains.

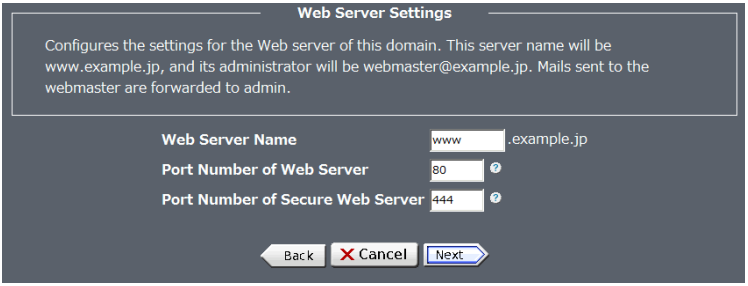
Check the check box of the item you wish to set a threshold value to and enter the value into the provided text box. The item "Maximum User Accounts" must be entered. Please note that the entered value will be ignored if the value exceeds that of the system capacity.

Uncheck the check boxes of items you do not wish to restrict.

Click the "Proceed" button to continue.

> ⚠ The Web Server Log is not included when calculating disk quota limit. Also, the current mail spool size will only be limited by the “Mail Spool Size” and not by the “Maximum Disk Quota”.

■ Service Basic Settings


Web Server Settings
Configures the settings for the Web server of this domain. This server name will be www.example.jp, and its administrator will be webmaster@example.jp. Mails sent to the webmaster are forwarded to admin.
Web Server Name
www
.example.jp
Port Number of Web Server
80
Port Number of Secure Web Server
444
Back
Cancel
Next

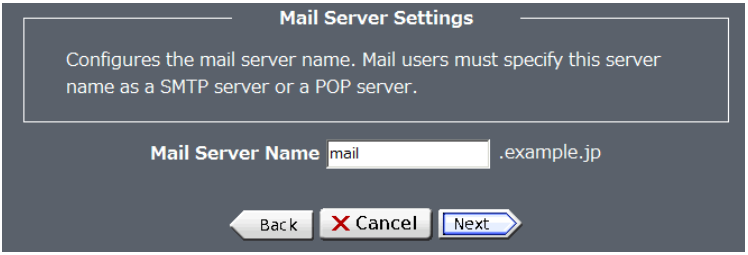
Configure the Web server settings for the virtual domain.

Enter the name of the Web server on the virtual domain to be published in "Web Server Name".

For example, specifying the Web server name as "www" for the virtual domain "virtualdomain.isp" will allow access as "http://www.virtualdomain.isp/" or "http://virtualdomain.isp/".

Enter the port number used for accessing the secure Web (https) in "Secure Web Server Port Number". The secure Web server port number must be unique within the system. An unused port number will be entered in the text box as a default value. Please make sure your value does not coincide with any used port numbers if you wish to change the default value.

Click the "Proceed" button to continue.

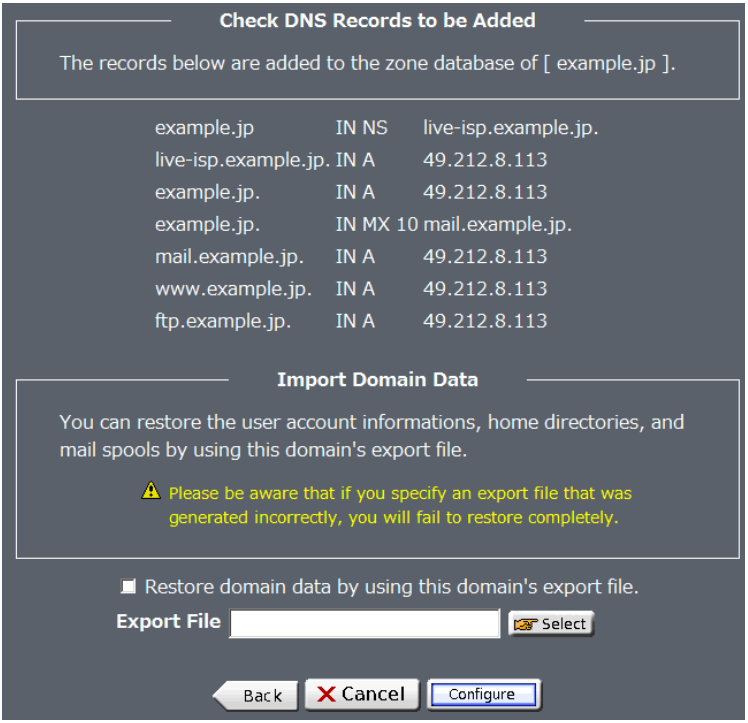


Specify the mail server name. The entered value will be set as your mail server if your own host is set as the master name server.

Click the "Proceed" button to continue.

■ Record Check

Please add the displayed entries if you wish to use an external name server.


Check DNS Records to be Added
The records below are added to the zone database of [example.jp].
example.jp IN NS live-isp.example.jp.
live-isp.example.jp. IN A 49.212.8.113
example.jp. IN A 49.212.8.113
example.jp. IN MX 10 mail.example.jp.
mail.example.jp. IN A 49.212.8.113
www.example.jp. IN A 49.212.8.113
ftp.example.jp. IN A 49.212.8.113
Import Domain Data
You can restore the user account informations, home directories, and mail spools by using this domain's export file.
Please be aware that if you specify an export file that was generated incorrectly, you will fail to restore completely.
Restore domain data by using this domain's export file.
Export File
Select
Back
Cancel
Configure

If the export data of your domain is stored on the server, you will be able to expand and transfer your domain by selecting the data file here.

Your virtual domain will be created once the "Configure" button is pressed. Please note that this process may take some time to complete.

■ Add Sub-Domain

Please follow the same configuration procedure as adding a normal virtual domain when adding sub-domains of the virtual domain.

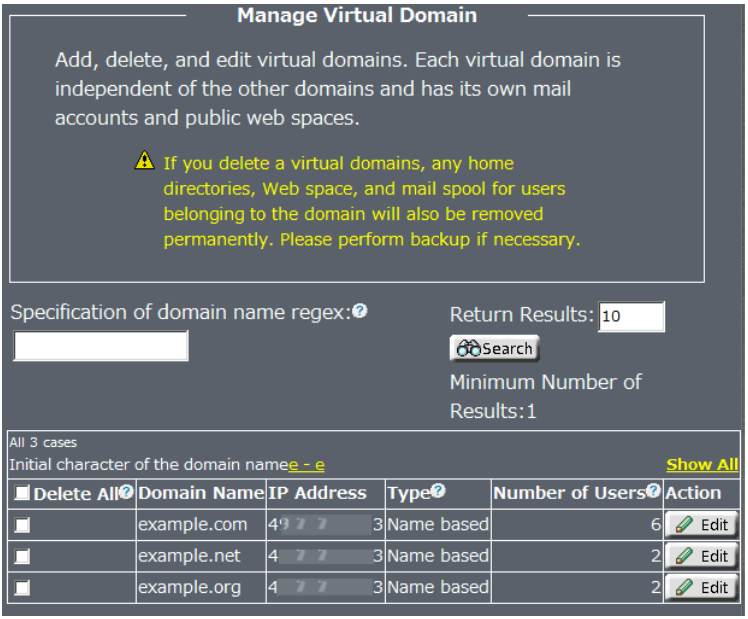
Please be aware that the NS record will not be added to neither the parent domain nor the sub-domains if the sub-domains are added using the “Add Multiple Sub-Domains via CSV” feature regardless of whether the user host is set to the master name server or not.

3. Virtual Domain Management

Allow users to edit or delete existing virtual domains.

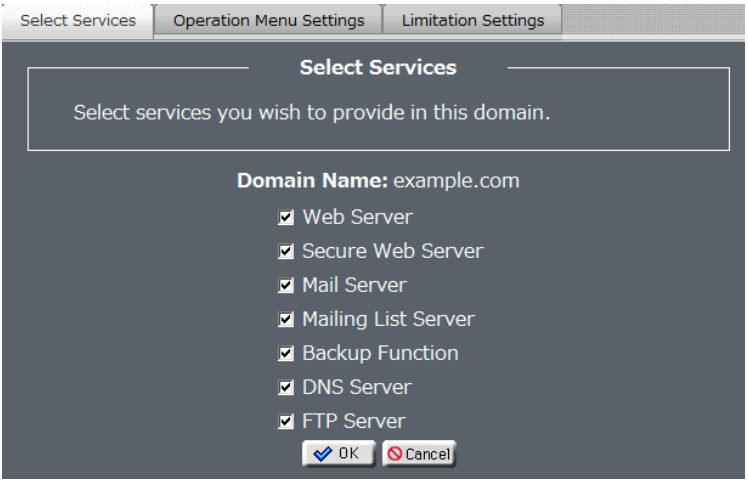
Click the "Virtual Domain Management" menu from the main menu to access the Virtual Domain Management screen.

This screen will display a list of currently registered virtual domains on your system



■ Edit Virtual Domains

Click the "Edit" button on the right of each virtual domain listed on the Virtual Domain Management screen to access the edit screen.



The items that can be edited in the edit screen are limited to "Select Server Types Used", "Select Operation Menu", and "Restriction Settings". Users are not allowed to configure the virtual domain's basic information such as the domain name.

Please refer to the "Add Virtual Domain" section of the User Manual for further details.

Click the "OK" button to return to the Virtual Domain Management screen and click the "Configure" button to complete your settings.

■ Delete Virtual Domains

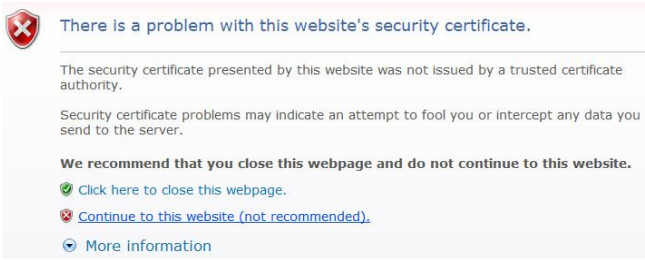
Select the "Delete" check box on the left side of each virtual domain listed on the Virtual Domain Management screen to delete an existing virtual domain.

Click the "Configure" button to remove the selected virtual domains.

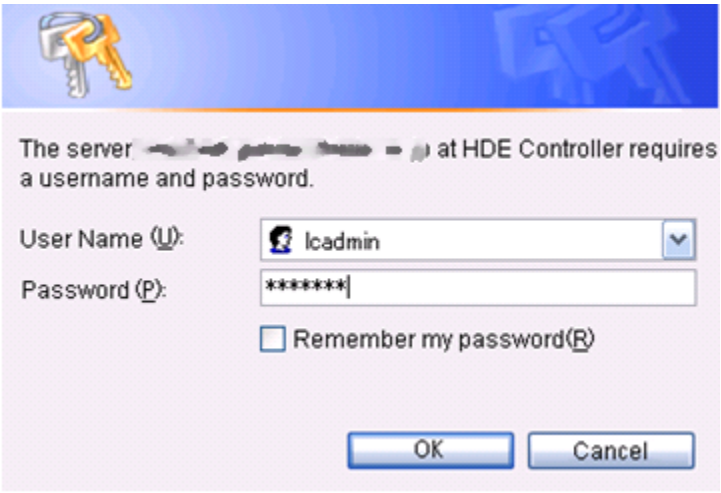
4. Access the Virtual Domain Administrator Menu

To access the administrator menu from the client machine, enter the following URL into the address bar of the supported Web browser.

```
http://Host FQDN or IP address:16590/
```


There is a problem with this website's security certificate.
The security certificate presented by this website was not issued by a trusted certificate authority.
Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.
We recommend that you close this webpage and do not continue to this website.
Click here to close this webpage.
Continue to this website (not recommended).
More information

Click "Yes" on the Security Warning dialogue.



Enter the following information into the authentication dialogue.

User Name	[User Name]@[Virtual Domain Name] (Ex.:admin@virtualdomain.isp)
Password	The password configured upon adding the virtual domain.

All configurations done after this section will be performed on the virtual domain administrator screen.

5. Web Server Management

The Web server management menu allows users to configure Web server settings for virtual domains. The default basic settings are sufficient to allow the Web server to operate normally. Please change these configurations in accordance with your purpose of use, if necessary.

■ Web Server Settings

● Basic Settings

These settings do not require to be changed under normal circumstances.

● Detailed Settings

Select the URL used by the virtual domain user to publish the Web contents in accordance with your operation policy.

Select whether you wish to record the access logs for agents/referrers/images on the server log.

Select whether or not to allow remote host reverse look-up.

Please be aware that the record content in “Access Statistics” may not be displayed correctly if “Do not keep record” is selected for the server log and remote host reverse look-up is disabled.

Click the "Configure" button to complete your settings.

■ Detailed Settings (Secure Web Server)

Specify the location to upload the html file for publishing the SSL Web contents by the virtual domain user.

The path is set to the normal Web directory by default; however, check the "Set as a different location as the Web server" if you wish to change the location and enter the directory path into the provided text box.

Click the "Configure" button to complete your settings.

These settings will be applied to all users.

● Error Message Settings

Please select an appropriate configuration in accordance with your operation policy.

Click the "Configure" button to complete your settings.

■ CGI/SSI Settings

Although the cgi-bin directory has already been configured under the document root (/home/lcvirtualdomain/DomainName/htdocs/cgi-bin) in HDE Controller, it is still necessary to create such directory in advance under htdocs using FTP client software and file managers.

Please enable/disable the CGI/SSI settings of any other directories or document roots in the Directory Management or Add Directory menus.

Enter the directory which you wish to enable CGI/SSI on in the Add Directory menu.

Click the "Proceed" button to continue to the next screen and click the "Configure" button to save your settings.

Leave the host restriction setting as its default value if you do not wish to apply any host restriction on the created directory.

These settings can be changed in the Directory Management menu.

In order to enable CGI/SSI on virtual domain users, these settings must first be configured in the real domain settings.

Using ".htaccess" (Distributed Configuration File Control / AllowOverride)

This setting can be configured in the "Directory Management" and the "Add Directory" menus.

Please select an appropriate setting for AllowOverride from the menu.

Directory Authentication

To apply a directory authentication by log-in name and password upon accessing a specific directory, following the procedures below in the Directory Authentication Settings menu:

Add the directory you wish to apply authentication on in the Add Directory menu.

Click the "Edit" button of the added directory in the Directory Authentication Settings menu.

Check the "Enable Authentication" check box and enter the user name and password used for the authentication, then click the "Add" button to continue. Repeat this process for adding multiple user names and passwords.

Click the "Return" button to return to the previous screen and click the "Configure" button to save your settings.

Access Statistics

Analyze the Webs server log and display the result.

The result can be displayed as monthly statistics, daily statistics, hourly statistics, hit number rankings (URL, entry, Web site), referrer, search keyword string, user agent, and country-wise statistics.

■ Key and Certificate (SSL) Settings

● If you already possess the site certificate

Upload the certificate in the "Upload Key/Certificate" menu.

● If you wish to obtain a new certificate

Create a new Certificate Signature Request (CSR) by the following steps:

Enter the necessary information in the "Web Server SSL Key Settings" and check the "Create new SSL private/public key pair and certificate" box. Click the "Configure" button to save your settings.

A CSR will be created. Download the CSR in the "Download Key/Certificate" menu and apply to the certificate-issuing authority.

Upload the site certificate you obtained in the "Upload Key/Certificate" menu.

Does not support private keys with pass phrases.

● Upload Web Contents

Please configure your client as follows if you wish to upload Web contents via FTP client software:

Server Name	ftp.DomainName
User Name	admin@Name
Password	Admin Password
Initial Remote Host Folder	htdocs (htdocs_ssl for SSL)

User Configurations

Server Name	ftp.DomainName
User Name	UserName@DomainName
Password	User Password
Initial Remote Host Folder	public_html

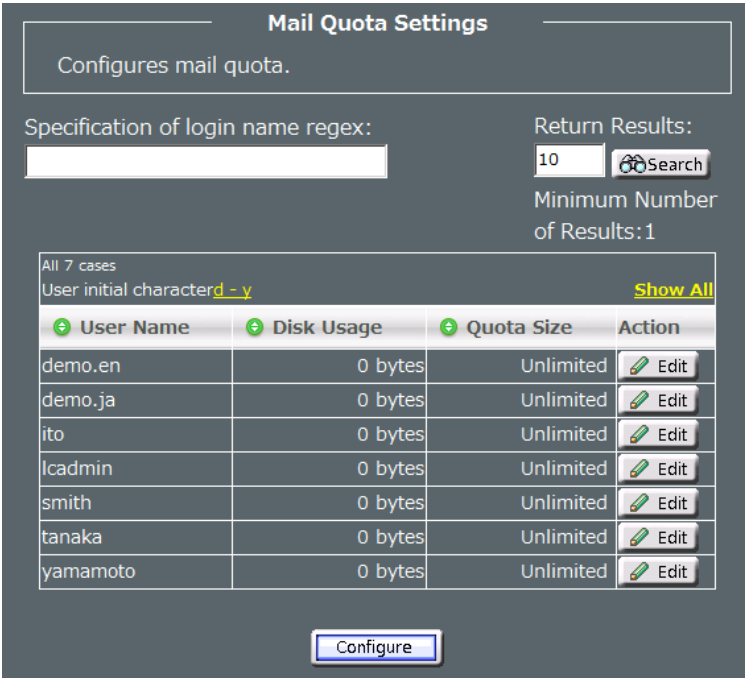
6. Mail Server Management

Configure various settings for the mail server on the virtual domain.

Click the "Mail Server" menu from the administrator screen to access the mail server configuration screen.

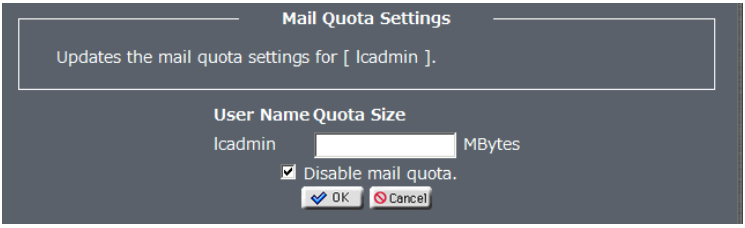
■ Restrict Spool Quota

Click "Restrict Spool Quota" in the sub menu.



The Restrict Spool Quota screen will display a list of users and the current spool quota limit threshold values for each user. You may browse through the use list using the user name initial links on the top of the list.

Click the "Edit" button on the right of each user to access the "Mail Spool Quota Settings" screen and edit the spool quota configurations.



The mail spool quota threshold value can be entered by Mbytes. Check the "Do not apply quota limit" if you do not wish to restrict the size of the mail quota.

Click the "OK" button to return to the previous screen and click the "Configure" button to complete your settings.

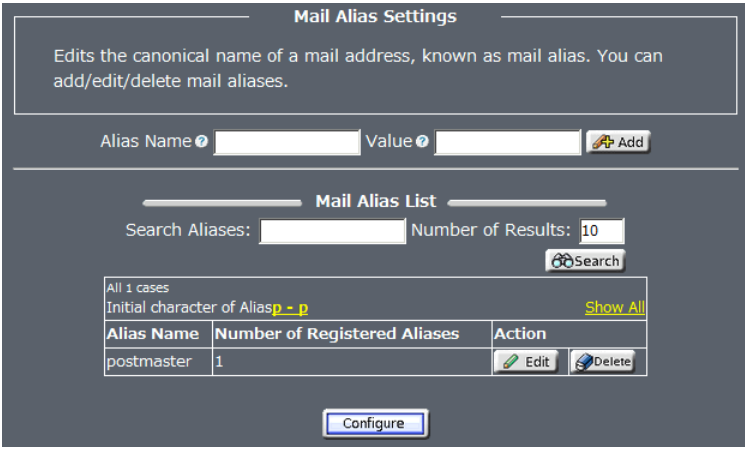
■ Spool Quota Bulk Settings

Configure the mail spool quota settings for multiple users at the same time.

Check the check box beside each user you wish to edit and click the "Configure" button to save your settings.

■ Alias Settings

Select "Alias Settings" in the sub menu.



Allow users to specify the mail address alias. Enter the alias name in the "Add Alias Name" text box and the mail address to assign the alias to in "Alias Value". Click the "Add" button to add your entry on the list.

Click the "Edit" or "Delete" buttons beside each alias in the list to edit or delete the aliases.

Click the "Configure" button to complete your settings.

> ⚠ Alias names must begin with a small case alphabet letter and consist of letters, “-“ (hyphens), and “_” (underscore).

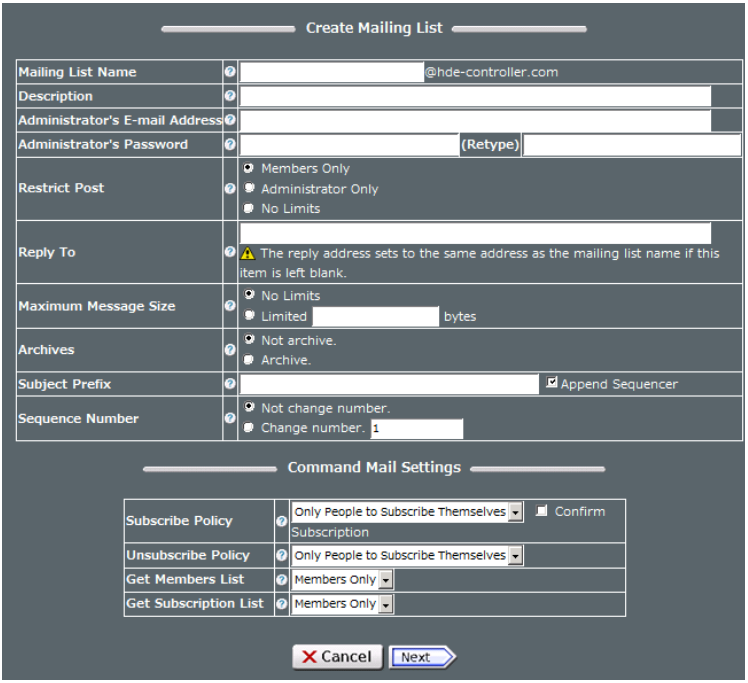
7. Mailing List Management

HDE Controller allows users to create and manage mailing lists from a simple Web browser. Please refer to the User Manual for further details on mailing list configurations.¥

This section will provide simple instructions on creating and deleting mailing lists.

■ Create a Mailing List

Select "Mailing List" from the administrator screen and click the "Add Mailing List" sub-menu.



As an example, we will create a mailing list where all members are allowed to send messages.

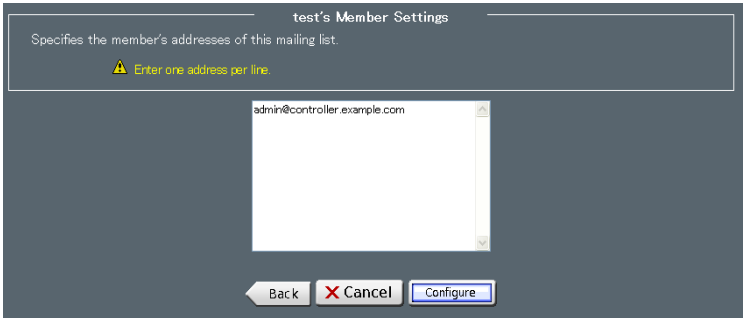
For this example, set "Subscribe Method" and "Unsubscribe" method as "By User Only" and only allow members to view the member list as well as send messages.

It may also be secure to set the configuration such that it asks for administrator's permission to grant new user subscriptions.

- Specify the name of the mailing list in "Mailing List Name". The domain name will be automatically set to the name of your virtual domain. Please do not include a "." (dot) in the mailing list name as doing so may cause the command line operation to fail to handle your mailing list.
- Enter the comments you wish to be displayed in the administrator screen in "Comment".
- Enter the administrator mail address in "Administrator's E-mail Address".
- Enter the administrator password to be used for command mail approval in "Administrator Password".
- Specify the reply-to address in "Reply-To". The reply address will be site as the sender address if omitted. We recommend you to set the reply address as the same address as the mailing list address if your mailing list type is "Communication Type".
- Set "Contributor Restriction" as "Members Only" and "Maximum Message Size" in accordance with your needs. Set "Archives" as "Enabled" if you wish to obtain back number information.
- Set "Subscribe Method" as "By User Only".
- Set "Unsubscribe Method" as "By User Only".
- Set "Obtain Member List" as "Members Only".
- Set "View Member List" as "Members Only".

The mailing list name cannot begin with a number.

Click the "Proceed" button to continue.



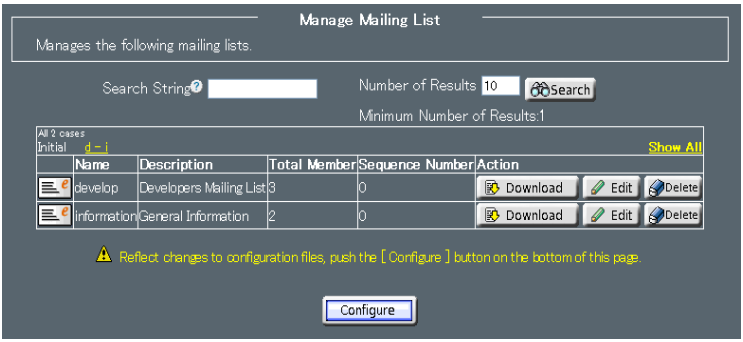
This screen will let users to configure the initial member list of their new mailing list. The administrator's E-mail address is already configured in the previous screen.

Enter one mail address per line to add member mail addresses.

Click the "Configure" button to complete your settings for mailing lists.

■ Delete a Mailing List

Select "Mailing List" from the administrator screen and then click the "Mailing List Management" sub-menu.



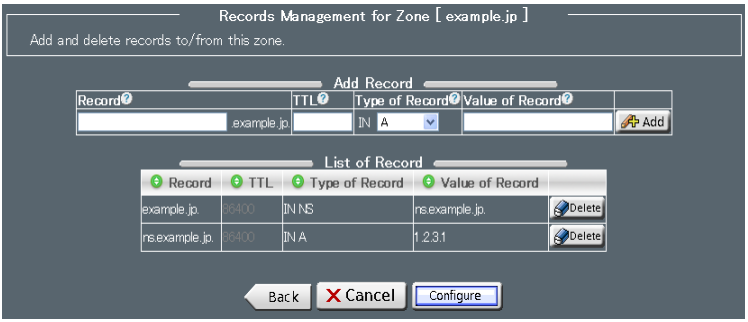
Click the "Delete" button beside each mailing list to delete the mailing list.

Click the "Configure" button to complete your settings.

8. DNS Server Management

Manage the DNS server record of your virtual domain.

Select "DNS Server" in the administrator screen and click the "Record Management" sub-menu.



Enter the host name in "Record". Please note that users are not allowed to change the domain segment.

Select the type of the record you wish to register in the "Record Type" pull-down menu.

Enter the host name or IP address associated with the record in "Record Value". The host name may be omitted for record type A.

> Please make sure to include a "." (dot) at the end of the host name when registering a new host name.

Click the "Delete" button beside each record on the list to delete a record.

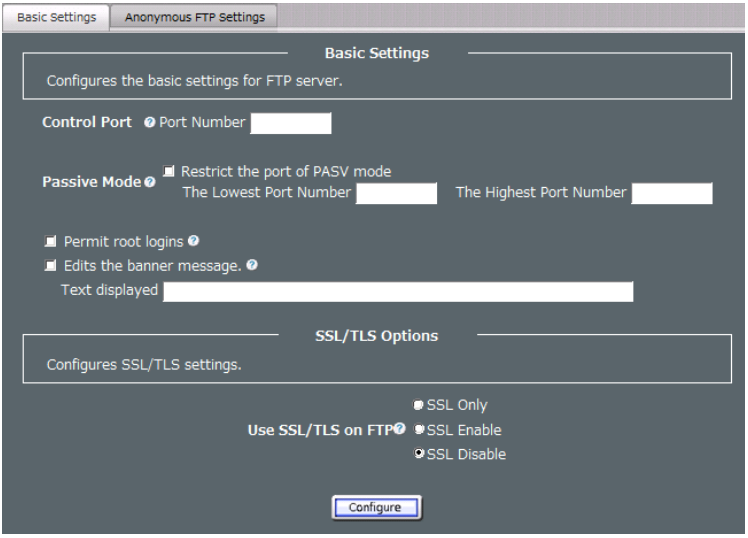
Click the "Configure" button to complete your record settings.

9. FTP Server Management

Configure settings for the FTP server.

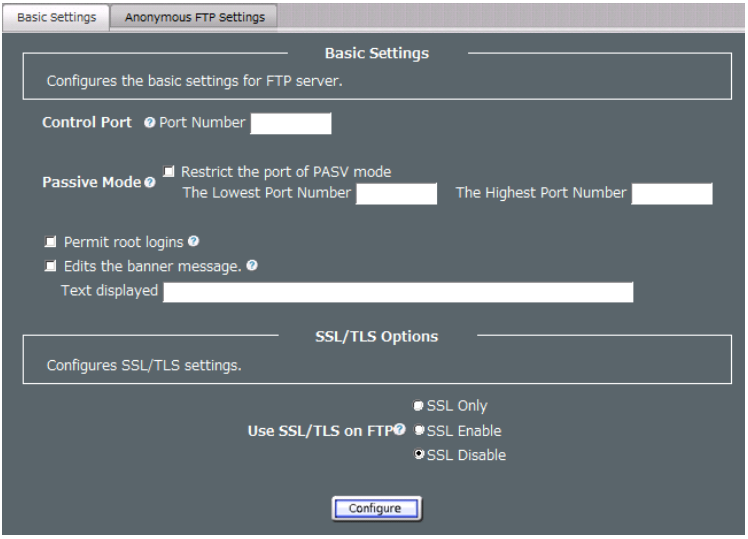
Click the "FTP Server" - "Basic Settings" menu to access the configuration screen.

■ Basic Settings



Specify the root directory for FTP log-in.

■ Anonymous FTP Settings



Anonymous FTP is a feature which allows users to access the system's public areas via FTP without account authentication.

Check the "Enable Anonymous FTP" check box if you wish to enable this feature. Additionally, you may also restrict the maximum number users accessing the system at the same time by setting a threshold value in "Maximum Number of Authentication Clients".

Click the "Configure" button to complete your settings and enable Anonymous FTP.

■ Incoming Directory Settings

Incoming directory refers to the directory which allows unregistered users to upload files via FTP. Check the "Enable write to incoming directory" if you wish to enable this feature.

Click the "Configure" button to complete your settings and enable the incoming directory.

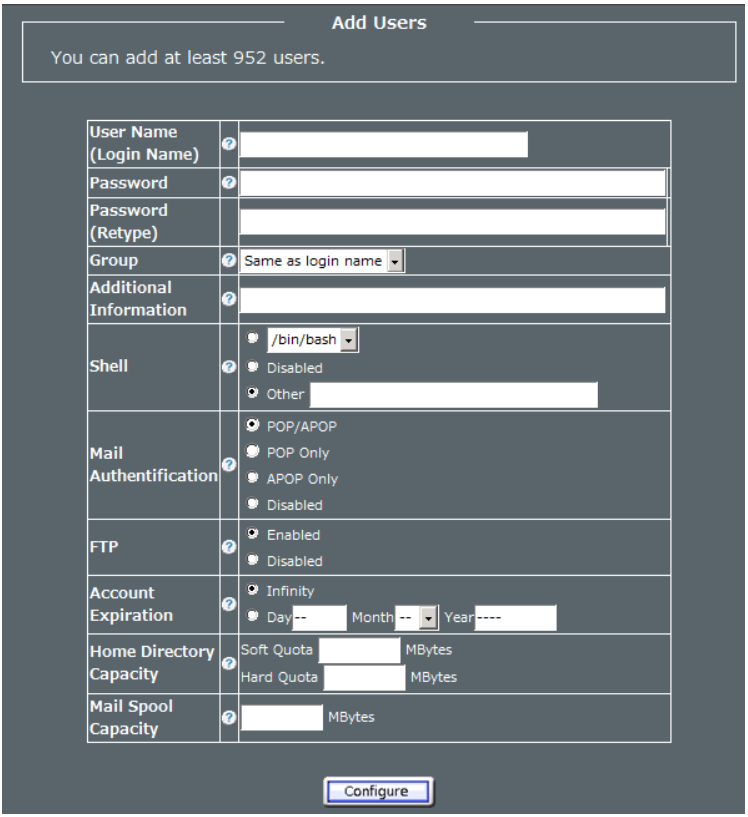
Please be aware that there are certain risks from granting access to unregistered users via Anonymous FTP and incoming directory which may be harmful at times. We recommend users to disable these features unless necessary.

10. User Management

HDE Controller allows users to manage user information from a simple Web browser.

Select "Accounts" in the administrator screen to access the account setting menu.

■ Add User



Select the "Add User" link from the sub-menu.

The user name must begin with a lower-case letter and may include alphabet letters, numbers, "-"(hyphens), and "_" (underscores).

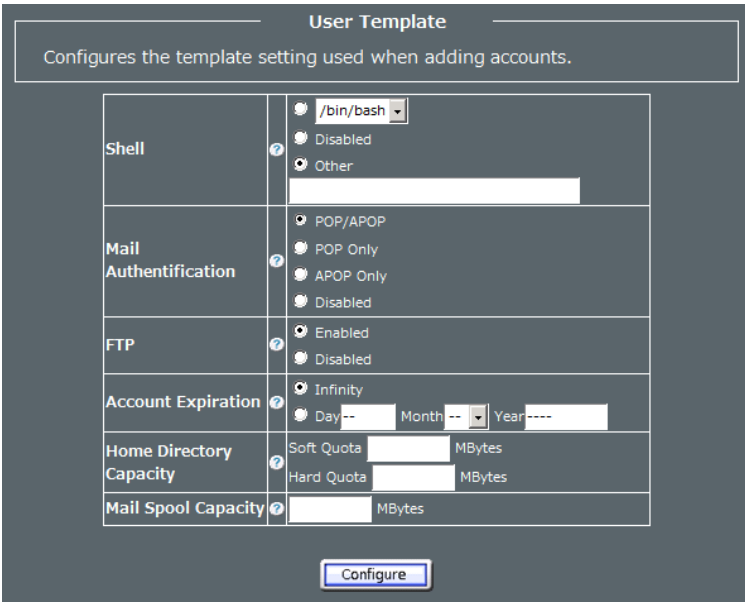
Click the "Configure" button to save your settings and add the new user. Please refer to the User Manual for further details on each configuration items.

Enter the user name used by the user for shell or FTP log-in in the format of "UserName@VirtualDomainName".

For example, if the virtual domain name is "example.jp" and the user name is "hde", then the user name used for log-in must be specified as "hde@example.jp". Users may not log-in with just "hde" as their user name.

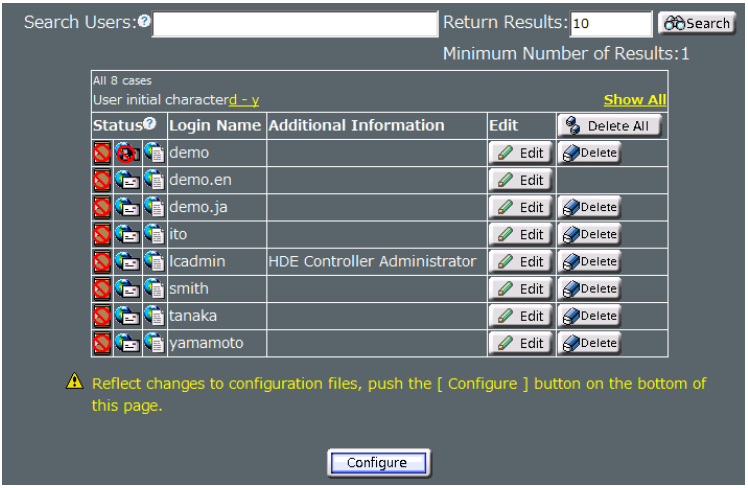
Account names cannot begin with a number.

"Template Settings" allow users to preset some of the initial values used for adding a new user.



The template feature allows users to omit some of the inputs when adding a new user in the "Add User" screen.

■ Edit / Delete Users



Select "User Management" from the sub-menus.

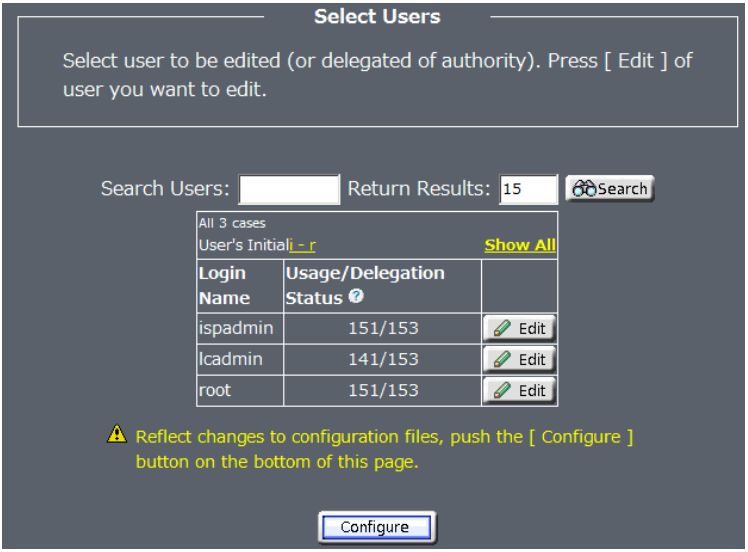
The User Management screen displays a list of currently registered users. Use the user name initial link on the top of the list to browse through the list of users by their initials.

Click the "Edit" button on the right of each user to access the user information setting page. Click the "OK" button after you have completed your change to return to the User Management screen.

Click the "Delete" button on the right of each user to delete a user.

Click the "Configure" button to complete your settings.

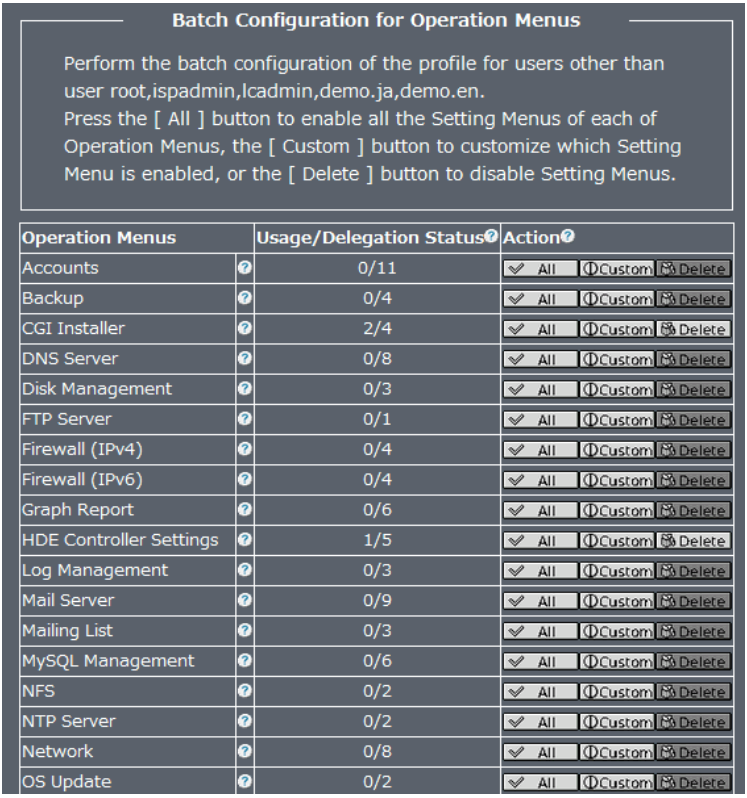
■ Access Privilege Settings


Select Users
Select user to be edited (or delegated of authority). Press [Edit] of user you want to edit.
Search Users:
Return Results: 15
Search
All 3 cases
User's Initial i - r
Show All
Login Name
Usage/Delegation Status
ispadmin 151/153 Edit
lcadmin 141/153 Edit
root 151/153 Edit
Reflect changes to configuration files, push the [Configure] button on the bottom of this page.
Configure

Select "Access Privilege Settings" from the sub-menus.

The Access Privilege Settings screen displays a list of registered users and their current access privilege status. Use the user name initial link on the top of the list to browse through the list of users by their initials.

Click the "Edit" button on the right of each user to change their privilege settings.


Batch Configuration for Operation Menus
Perform the batch configuration of the profile for users other than user root,ispadmin,lcadmin,demo.ja,demo.en.
Press the [All] button to enable all the Setting Menus of each of Operation Menus, the [Custom] button to customize which Setting Menu is enabled, or the [Delete] button to disable Setting Menus.
Operation Menus
Usage/Delegation Status
Action
Accounts 0/11 All Custom Delete
Backup 0/4 All Custom Delete
CGI Installer 2/4 All Custom Delete
DNS Server 0/8 All Custom Delete
Disk Management 0/3 All Custom Delete
FTP Server 0/1 All Custom Delete
Firewall (IPv4) 0/4 All Custom Delete
Firewall (IPv6) 0/4 All Custom Delete
Graph Report 0/6 All Custom Delete
HDE Controller Settings 1/5 All Custom Delete
Log Management 0/3 All Custom Delete
Mail Server 0/9 All Custom Delete
Mailing List 0/3 All Custom Delete
MySQL Management 0/6 All Custom Delete
NFS 0/2 All Custom Delete
NTP Server 0/2 All Custom Delete
Network 0/8 All Custom Delete
OS Update 0/2 All Custom Delete

For general users, their initial default settings will only have the privileges for "User Information Management" and "File Manager" enabled. Please change the privilege settings in accordance with your needs. By assigning different privileges to each users, you will be able to create users who is not allowed to use the mail forwarding feature, or general users with privileges to add new users, etc.

After you have selected the privilege settings, click the "Return" button to return to the previous screen and click the "Configure" button to complete your settings.

HDE Controller X

Chapter 3
Virtual Domain User Features

1. Summary

Users added from the virtual domain administrator menu will become a virtual domain user who's allowed access to various features, such as mail service and Wev service, on the client machine.

Additionally, user information and configurations can also be changed from the administrator menu.

■ Client Software Settings for Each Service

● Mail Service

SMTP Server	mail.DomainName
POP/IMAP Server	mail.DomainName
POP/IMAP Account	UserName@DomainName (Sine client software may use % instead of @)
POP/IMAP Password	Uses the pre-set password

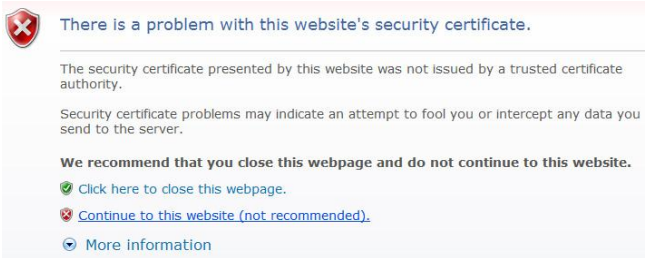
● FTP Service

FTP Server	ftp.DomainName
Account	UserName@DomainName
Password	Uses the pre-set password
Initial Remote Host Directory	public_html

■ Access the Administrator Menu

To access the administrator menu from the client machine, enter the following URL into the address bar of the supported Web browser.

```
http://Host FQDN or IP address:16590/
```


There is a problem with this website's security certificate.
The security certificate presented by this website was not issued by a trusted certificate authority.
Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.
We recommend that you close this webpage and do not continue to this website.
Click here to close this webpage.
Continue to this website (not recommended).
More information

Click "Yes" on the Security Warning dialogue.

Enter the following information into the authentication dialogue.

User Name	[User Name]@[Virtual Domain Name]
Password	Pre-set password upon user creation.

The features shown in the user configuration screen can be changed by the administrator.

2. User Information Management

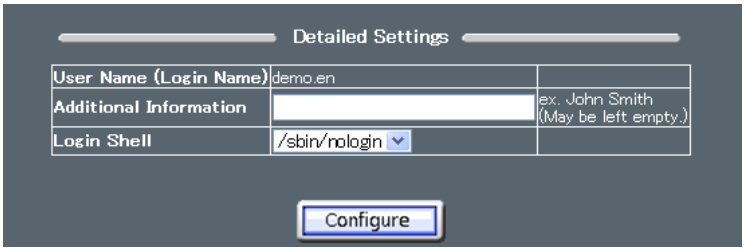
Configure various settings for each log-in users,

■ Log-in Password

To change the user password, enter the new password in "New Password" and "New Password (retype)".

Click the "Configure" button to apply your settings.

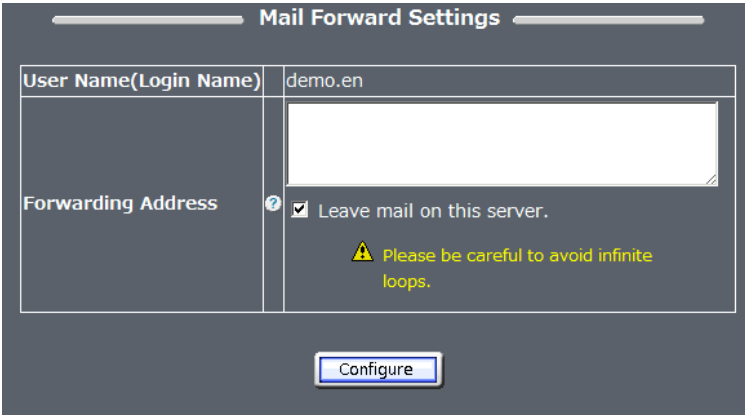
■ Detail Settings



Configure additional information and login shell settings for users. Enter any additional information, such as real names and comments, in "Additional Information" (optional).

Click the "Configure" button to save your settings.

■ Mail Forwarding



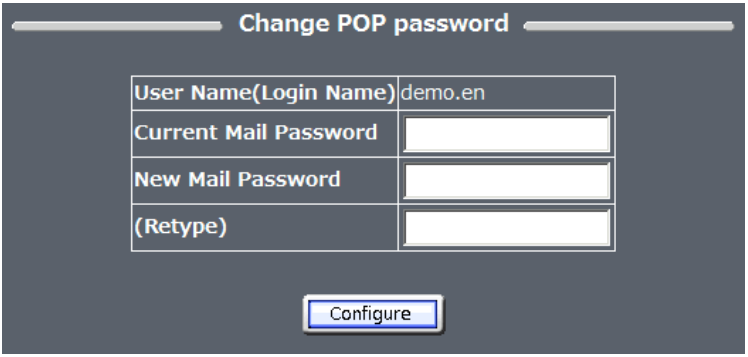
Specify the mail forwarding address of the user.

Enter the forwarding addresses in the "Forwarding Address" field.

Check the "Leave mail on this server" box if you wish to save the contents of the forwarded mails.

Click the "Configure" button to complete your settings.

■ Mail Password

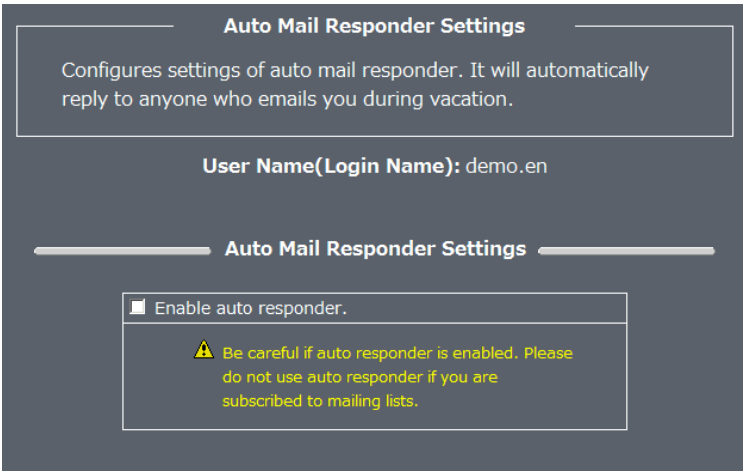


Configure the mail password setting for each user.

Enter the current password and the new password to change the current password.

Click the "Configure" button to complete your settings.

■ Auto-Reply Settings


Auto Mail Responder Settings
Configures settings of auto mail responder. It will automatically reply to anyone who emails you during vacation.
User Name(Login Name): demo.en
Auto Mail Responder Settings
Enable auto responder.
Be careful if auto responder is enabled. Please do not use auto responder if you are subscribed to mailing lists.

Allow users to automatically reply to incoming mails with pre-set messages. This feature is useful for cases where the receiver is absent from the office or is unable to check his or her mail in time.

Select "Enable Auto-Reply" if you wish to use the auto-reply feature.

Enter the reply mail sender/reply mail subject/reply mail body into each corresponding text fields.

Click the "Configure" button to complete your settings.

■ Backup/Restore

Configure settings for performing backup on user home directory and restoring backup files.

● Backup Home Directory

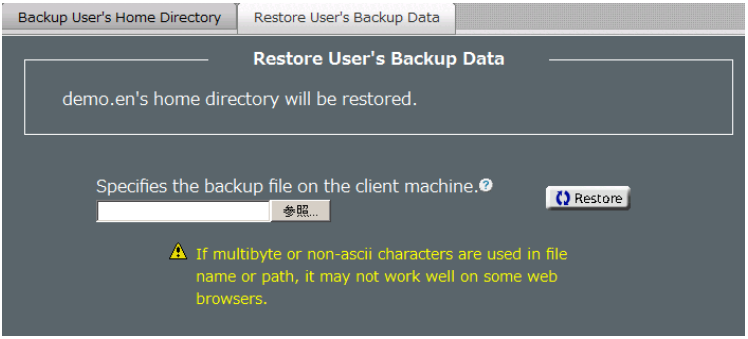
Backup User's Home Directory
Restore User's Backup Data
Backup User's Home Directory
demo.en's home directory will be backed-up.
Usage of Home Directory: 4.00kBytes
Execute

Confirm the disk capacity of the current home directory and click the "Execute" button to start the backup process.

The save file dialogue will appear on your screen.

Specify the download path and the file name of the backup file and click the Save to download your backup file.

● Restore Home Directory

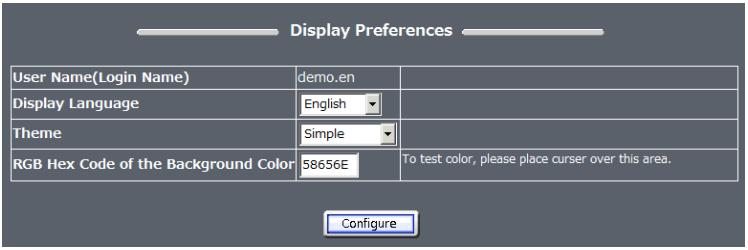

Backup User's Home Directory
Restore User's Backup Data
Restore User's Backup Data
demo.en's home directory will be restored.
Specifies the backup file on the client machine.
参照...
Restore
If multibyte or non-ascii characters are used in file name or path, it may not work well on some web browsers.

Enter the path of the backup file into the provided text box.

You may also browse the backup file in your directories using the "Browse" button.

> ⚠ Please note that any backup file that exceeds 256MB in size cannot be restored in this fashion.

■ User Status



Display the following information of the logged-in users:

・User name

・ Home directory disk usage

・ Mail spool disk usage

The threshold values will also be displayed if the items shown have restrictions set on them by the administrator.

3. Utility

■ File Manager

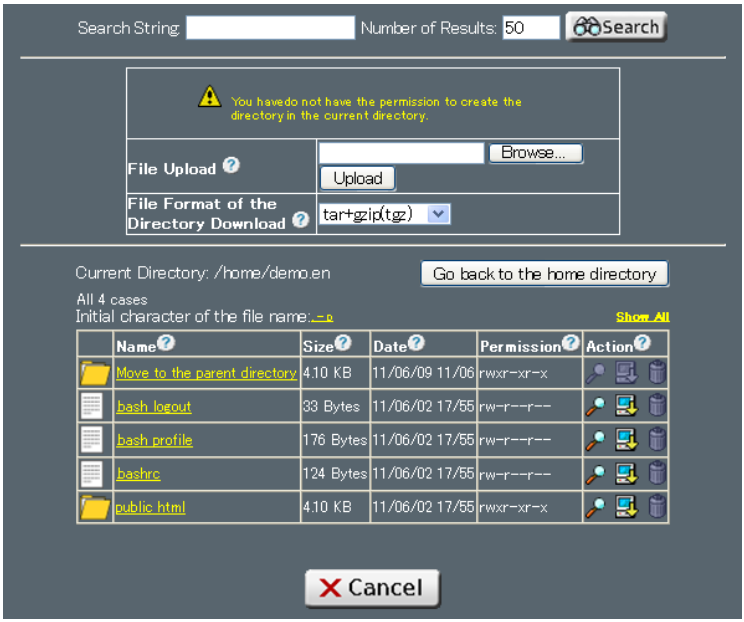
The File Manager provides logged-in users an easy way to manage user home directories, and upload html files without the need for a FTP client...

> ⚠ Please note that you cannot upload multiple files simultaneously.

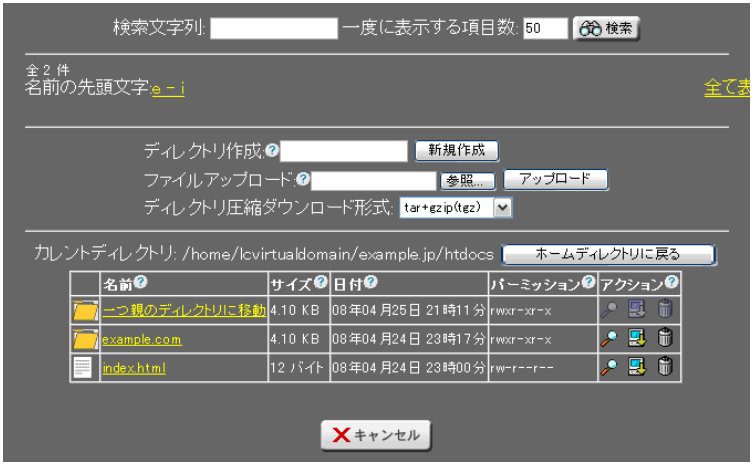
> ⚠ The maximum file size allowed for the upload file is 256MB.

● Uploading html Files

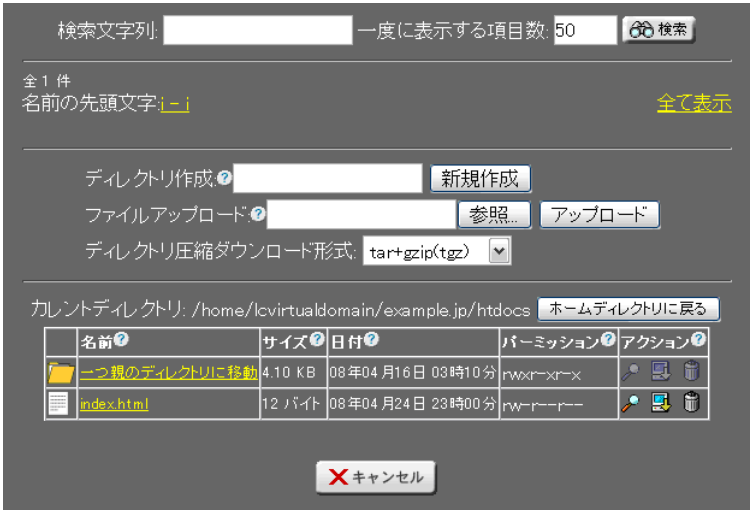
Click the "public_html" link shown on the screen.



The current directory will be changed to "/home/lcvirtualdomain/DomainName/users/UserName/public_html.



Select the html file from the client machine to be uploaded and click the "Upload" button to continue.

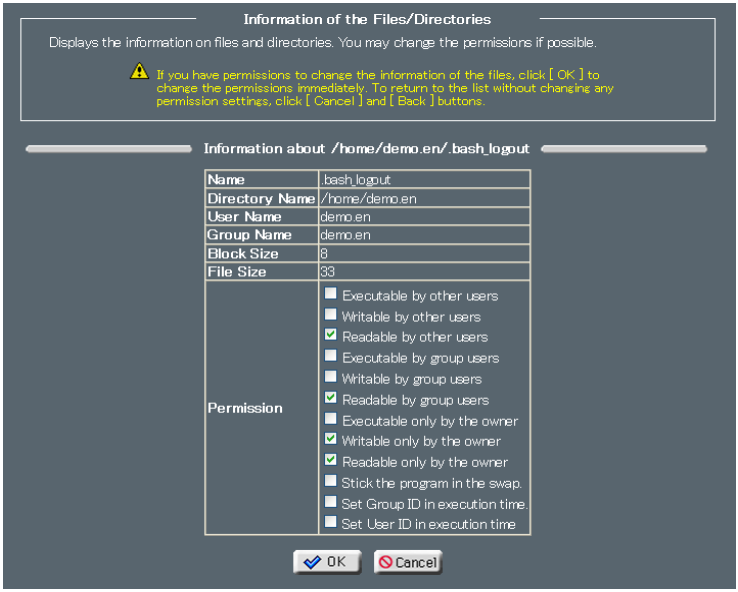


You upload is complete if the uploaded file shows up on the list of html files on screen.

Please make sure to upload the “index.html” file in order to display the top page of the Web page.

■ Change File Permissions

Click the magnifying glass icon beside each uploaded file listed on the screen to access the configuration screen. Select the appropriate permission setting for the file and click the "OK" button to save your settings.


Information of the Files/Directories
Displays the information on files and directories. You may change the permissions if possible.
If you have permissions to change the information of the files, click [OK] to change the permissions immediately. To return to the list without changing any permission settings, click [Cancel] and [Back] buttons.
Information about /home/demo.en/.bash_logout
Name
.bash_logout
Directory Name
/home/demo.en
User Name
demo.en
Group Name
demo.en
Block Size
8
File Size
33
Permission
Executable by other users
Writable by other users
Readable by other users
Executable by group users
Writable by group users
Readable by group users
Executable only by the owner
Writable only by the owner
Readable only by the owner
Stick the program in the swap.
Set Group ID in execution time.
Set User ID in execution time
OK
Cancel

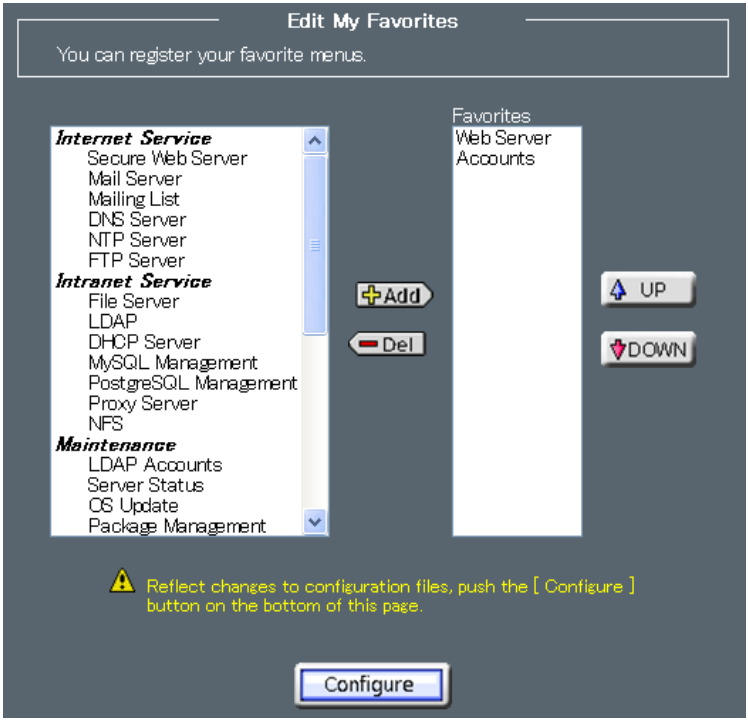
Return to the previous screen and make sure your new permission setting has been applied.

Users will not be able to change the file permission for files owned by other users.

Edit Favorites

HDE Controller allows users to save and organize commonly used menus and functions in a Favorites list.

The menus registered in this setting will appear as small icons on the top right of the HDE Controller Main menu, allowing users to access each menu quickly.



To register a menu to your favorite list, select the menu to be added from the list on the left and click the "Add" button to add the menu to the Favorite list.

To remove a registered menu from your favorite list, select the menu to be removed from the Favorite list and click the "Del" button.

You may also use the "UP" and "DOWN" buttons to change the order of the menus registered on the Favorite list.

Click the "Configure" button to save your settings.

You may select multiple menus from each list by holding down the "Ctrl" key.

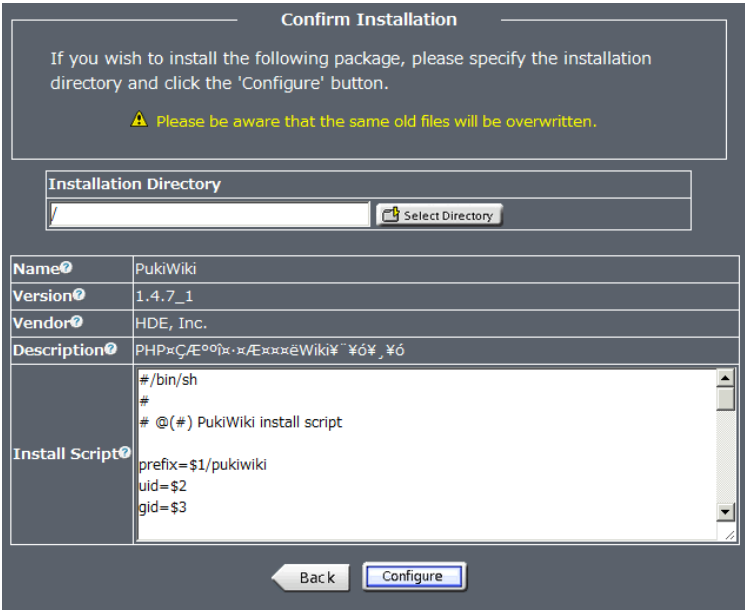
You may also select a range of menus from each list by holding down the "Shift" key.

5. Install CGI

Install CGI

Install CGI
Install CGI scripts. You may install the scripts by clicking the [Install] button after you have confirmed the details of the script.
Name
Version
Action
PukiWiki
1.4.7_1
Install

Install the CGI packages used by users. A confirmation screen will be displayed when the "Install" button beside the packages you wish to install is pressed.



Select the install directory and click the "Configure" button to begin the installation under the selected directory.

The specification of the install directory can be done only within the scope of each user's privilege. However, root, ispadmin, lcadmin users are allowed to specify the install directory on all directories.

The install script is executed under log-in user privileges; however, it will be executed in root privilege for ispadmin users.

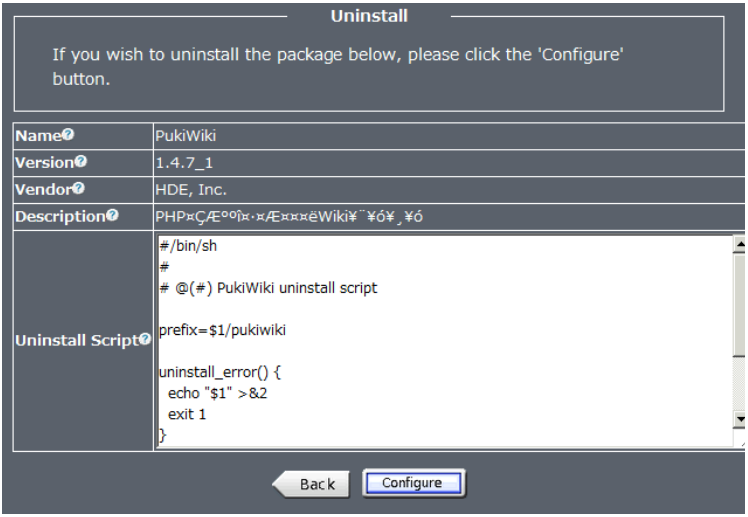
It is necessary to change the write privilege of the install directory using the file manager in order to allow users to install the packages in them.

> Cautions for Executing Scripts
>
> Since users may execute any commands in the scripts, improper use of the scripts may result in file and directory damage, leading to irreversible faults in your system.
>
> Please make sure you fully understand the content of the scripts before executing them and stop their use if you are unsure of what you are doing.
>
> Please note that we do not take any responsibility for system damages caused by user-made script processes.

■ CGI Management

Performs update/uninstall on the CGI packages configured by each user.

A confirmation screen will be displayed when the "Uninstall" button beside each package is pressed.



Confirm the displayed content and click the "Configure" button to start the uninstall process.

The uninstall script is executed under log-in user privileges; however, it will be executed in root privilege for ispadmin users.

Same cautions apply for uninstall scripts as install scripts. Please refer to the “Cautions for Executing Scripts” note in the Install section for details.

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